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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/460,891	12/14/1999	VICTOR KOREN	1098/OF805	3082

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NEW YORK, NY 10022

EXAMINER	
TRAN, CON P	

ART UNIT	PAPER NUMBER
2644	

DATE MAILED: 01/29/2004

10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/460,891	KOREN, VICTOR	
	Examiner	Art Unit	
	Con P. Tran	2644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *08 October 2003*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-12* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *9-11* is/are allowed.

6)☒ Claim(s) *1-8,12* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

13)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

a) ☐ The translation of the foreign language provisional application has been received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .
4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-8, and 12** are rejected under 35 U.S.C. 102(e) as being anticipated by Blon et al. (6,542,604).

Regarding **claim 1**, Blon et al. teaches a method for correcting for an echo signal component in a telecommunications device (Fig. 1), comprising the steps of inherently sampling a transmitted signal (TTIP) across a sampling resistor (R) to obtain a sampled transmit signal; subtracting the sampled transmitted signal (through subtractor AGC) from a line signal (RTIP) to obtain a reconstructed received signal; inherently sampling the transmitted signal across a first RC network echo compensation circuit (RTL2,CTL1) to obtain a first echo compensation signal (for transmission line replica; col. 3, lines 54-58); and subtracting the first echo compensation signal (RTL2,CTL1; together with

RRTIP) from the reconstructed received line signal (RTIP) via pins HYB3 and HYB4 (i.e., first circuit node); to produce a first compensated received signal (in AGC) by providing the first echo compensation signal (RTL2,CTL1; together with RRTIP) and the reconstructed received signal to a first circuit node; thereby compensating the reconstructed received signal (col. 3, lines 18-67).

Regarding **claim 2**, Blon et al. further teaches the method of claim 1, further comprising steps of inherently sampling, sampling the transmitted signal across a second RC network echo compensation circuit (RW1, RW1, RTL2, CBT, YBT, LBT) to obtain a second echo compensation signal (for transmission line replica; col. 3, lines 54-58); and subtracting the second echo compensation signal (RW1, RW1, RTL2, CBT, YBT, LBT; together with RTRING) from the first compensated received signal (in AGC) to produce a second compensated signal (for transmission line replica; col. 3, lines 54-58); by providing the second echo compensation signal (RTL2, CTL2; together with RTRING) and the first compensated received signal (in AGC) via pins HYB3 and HYB4 to the first circuit node; thereby compensating the reconstructed received signal (col. 3, lines 18-67).

Regarding **claim 3**, Claim 3 is claim 1 when the power supply is inverted. Claim 3 is interpreted and thus rejected for the reasons set forth above in the rejection of claim 1.

Regarding **claim 4**, Claim 4 is claim 2 when the power supply is inverted. Claim 4 is interpreted and thus rejected for the reasons set forth above in the rejection of claim 2.

Regarding **claim 5**, Blon et al. teaches an apparatus for compensating for echo signal in a telecommunications device (receiver/transmitter chip RTC; Fig. 1) comprising:

a transmitter having two outputs (TTIP, TRING; Fig. 1); a receiver having an input (RTIP); a line transformer (T) coupled to the transmitter output (TTIP) and the receiver input (RTIP); and an echo compensation circuit (RTL2,CTL1) including a first circuit branch (RTTIP) coupled to the transmitter first output (TTIP) and the receiver input (RTIP via AGC) and a second circuit branch (RTRING) coupled to the transmitter output (TRING) and the receiver input (RRING via AGC; see Fig. 1; col. 3, lines 18-67).

Regarding **claim 6,** Blon et al. teaches an apparatus according to claim 5, wherein:

the first circuit branch further comprises a first resistor (RTL2) and a first capacitor (CTL1) connected in series; and the second circuit branch further comprises a second resistor (RW1) and a second capacitor (CBT) connected in series.

Regarding **claims 7 and 8,** these claims merely reflect the apparatus to the method claim of claim 3 and 4 and are therefore rejected for the same reasons.

Regarding **claim 12,** Blon et al. teaches method of claim 1, wherein the transmit signal (TTIP) and the inverted transmit signal (TRING) are complimentary transmission signal outputs from a differential transmitter pair (line driver LD, see Figure 1; col. 3, lines 33-42).

Allowable Subject Matter

3. **Claim 9** is allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent **claim 9,** the cited prior arts teach a device for echo attenuation in a digital transmission system using an impedance replica of a transmission path, comprising an impedance replica of a transmission path, the impedance replica including a terminating resistance replica, a transformer replica connected to the terminating resistance replica, and a transmission line replica connected to the transformer replica. The cited prior arts fail to disclose or fairly suggest the specific combination of structural and functional limitations as the claimed invention.

Claims 10-11 are allowable by virtue of their dependency on claim 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Amendment

4. The Declaration filed on October 8, 2003 under 37 CFR 1.131 is sufficient to overcome the Grisamore reference.

With respect to rejections of **claims 5, 9, 1, 8, and 10** under *35 USC § 102(e), and § 103(a),* the rejections based on Grisamore are withdrawn. New rejections based on Blon et al. reference are necessitated by Applicant's amendment.

Response to Arguments

5. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Con P. Tran, whose telephone number is (703) 305-2341. The examiner can normally be reached on M - F (8:30 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office at telephone number (703) 306-0377.

cpt CPJ
January 26, 2004

FORESTER W. ISEN
SUPERVISORY PATENT EXAMINER